

How To Disable IR LEDs in ABV High Definition 1080P PD-SDI Camera

When a forward facing vehicle HD-SDI camera, has built in high intensity IR LED, there is a phenomenon experienced when the IR LEDs light reflects off the windshield and back to the camera lens, that is generally referred to as “ghosting” as it creates a white glare that obscures or degrades the image clarity making the video image in many instances of nighttime recording unusable due to poor quality and glare of the “ghosting”.

In order to remedy this problem the IR LEDs must be disabled by removing power to the IR LED board array. ABV service can perform this operation for an additional fee or you can perform this service yourself and save the additional cost.

The process takes about 10 minutes per camera and as long as care is taken to the camera components, it should not affect the operation of the camera. However, once the camera shell is open the protection to the more fragile components of the camera is removed and it is possible to damage the cameras and damage done to a camera during this process is Not covered under warranty and could be chargeable. For this reason only those with a background in electromechanical assembly/disassembly should attempt this process.

The following procedure will illustrate the process for PD-SDI:

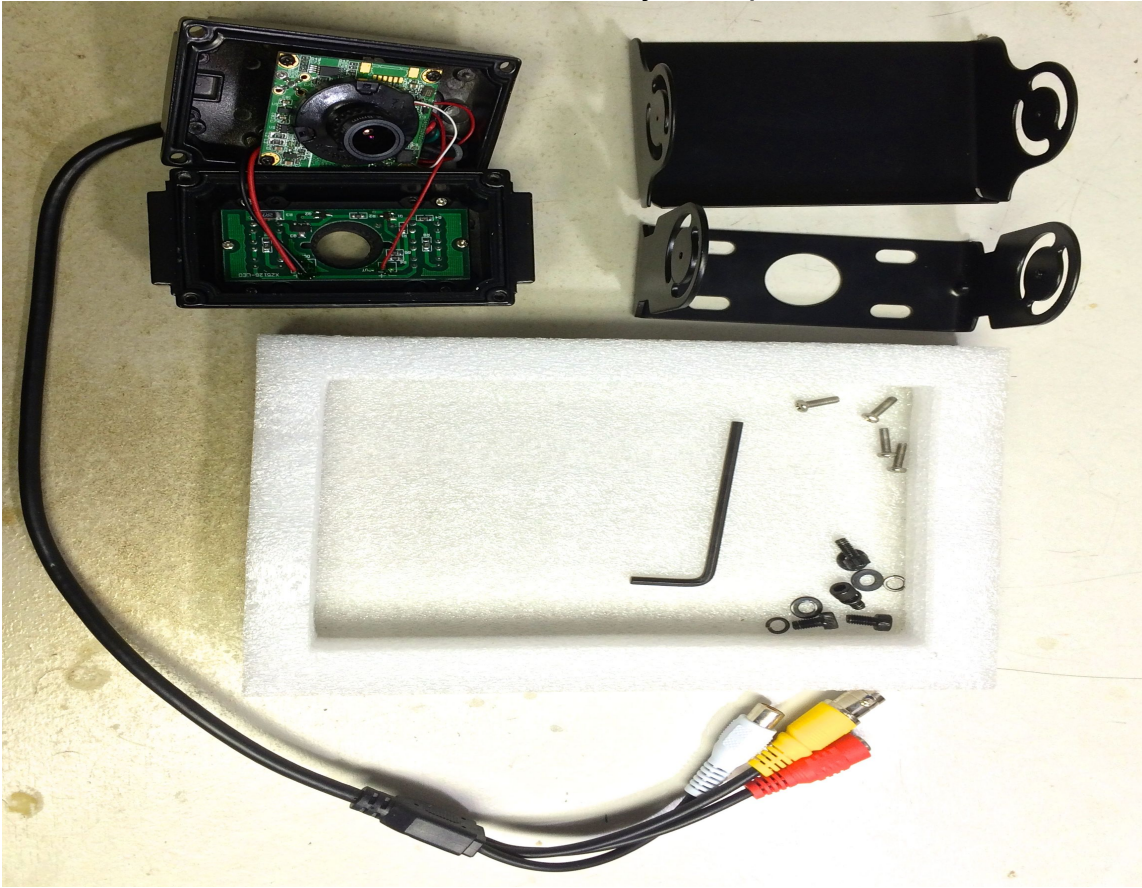
Step 1

Remove the camera sun shield & mount, usually 4 Allen screws

Using a permanent marker you may wish to designate the top of the camera as when reassembled it is a common mistake to connect mounts to the upside down camera body.

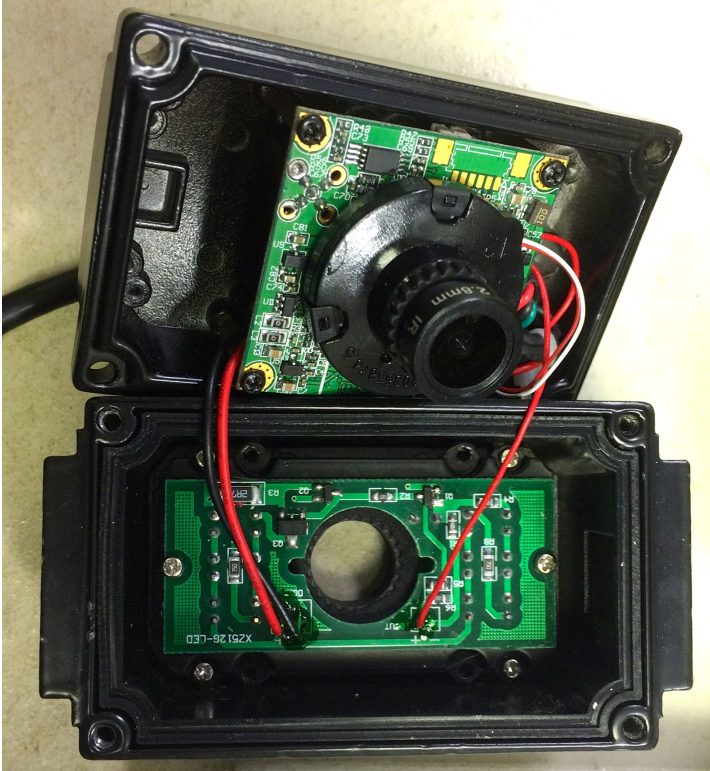
Step 2

Remove the camera metal shell, usually Phillips screws



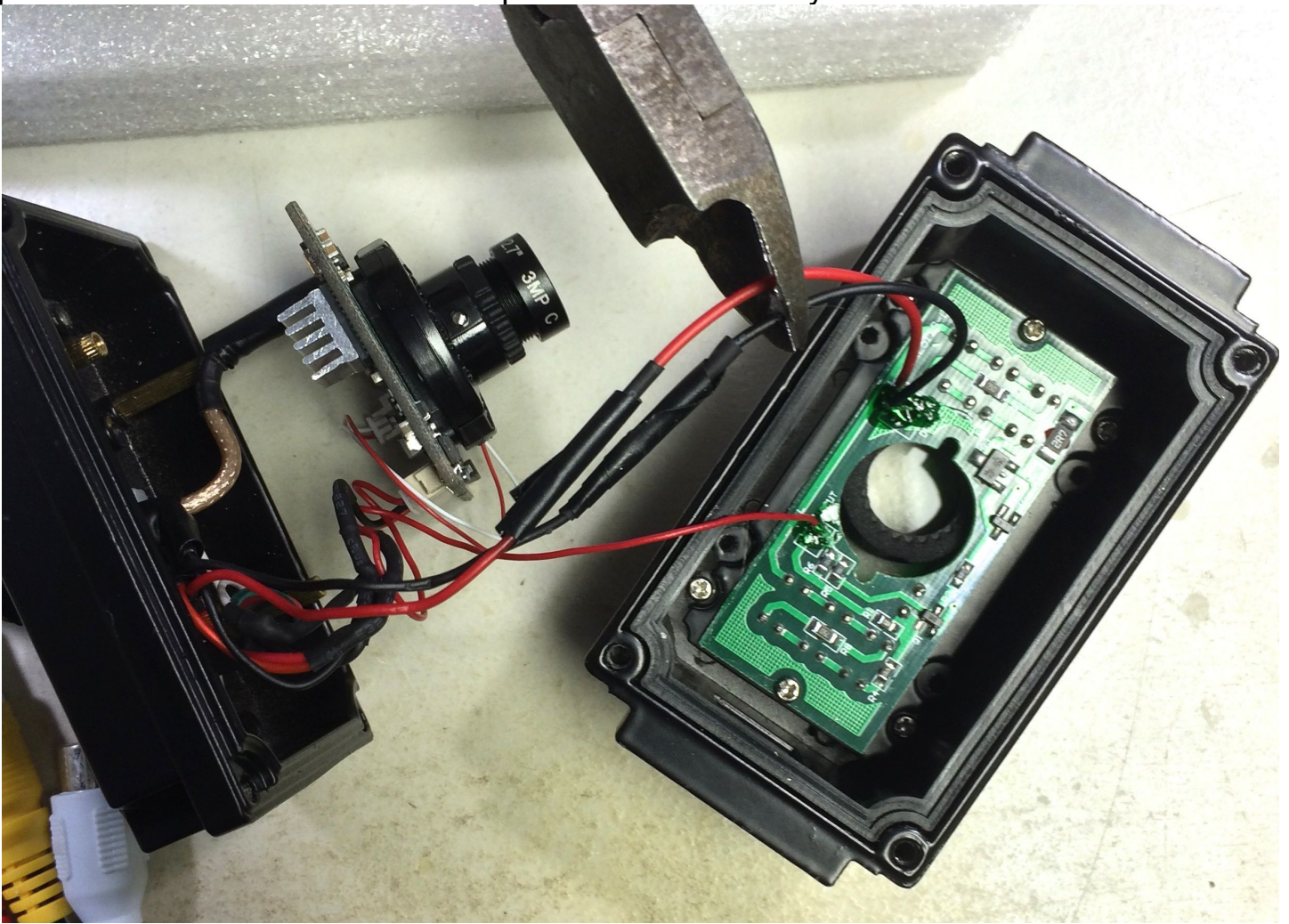
Step 3

Separate the camera shell casing to open access to the PC Board



Step 4

Locate the IR LED power wires Red & Black going to the IR LED PC Board. Cut the power wires and then insulate the power wires for safety considerations.



Step 5

Reassembly is the reverse of the above. Make sure you do not pinch any power wires.

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